

## EAST Search History

| Ref # | Hits | Search Query                                                                                           | DBs                                         | Default Operator | Plurals | Time Stamp       |
|-------|------|--------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------|---------|------------------|
| L1    | 76   | ("recording medium" same "thickness" and "soft layer")                                                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2006/03/05 13:47 |
| L2    | 50   | ("recording medium" and "thickness" same "soft layer")                                                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2006/03/05 13:48 |
| L3    | 0    | ("recording medium" and "thickness" same "soft layer") and (saturation adj2 flux adj2 density)         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2006/03/05 13:48 |
| L4    | 170  | (recording near2 medium) and thickness same (soft near2 layer) and (saturation adj2 flux adj2 density) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2006/03/05 13:49 |
| S1    | 1    | "6657813".pn.                                                                                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2004/08/21 18:35 |
| S2    | 1    | "5854727".pn.                                                                                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2004/08/21 18:35 |
| S3    | 4    | "5854727".URPN.                                                                                        | USPAT                                       | OR               | ON      | 2004/08/21 18:36 |
| S4    | 5    | ("4982301"   "5075956"   "5181149"   "5486967"   "5550796").PN.                                        | USPAT                                       | OR               | ON      | 2004/08/21 18:36 |
| S5    | 1928 | 360/125.ccls.                                                                                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2006/03/01 14:20 |
| S6    | 592  | 360/125.ccls. and "recording medium"                                                                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2002/09/30 10:32 |
| S7    | 2023 | 360/131.ccls.                                                                                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2005/06/13 08:31 |
| S8    | 1414 | 360/131.ccls. and "recording medium"                                                                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2002/09/27 17:13 |
| S9    | 592  | 360/125.ccls. and "recording medium"                                                                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2002/09/30 10:33 |

## EAST Search History

|     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                             |    |    |                  |
|-----|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----|----|------------------|
| S10 | 161 | 360/125.ccls. and ("recording medium" same "thickness")                                                                                                                                                                                                                                                                                                                                                                                                                                                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2002/09/30 11:53 |
| S11 | 5   | ("4982301"   "5075956"   "5181149"   "5486967"   "5550796").PN.                                                                                                                                                                                                                                                                                                                                                                                                                                                 | USPAT                                       | OR | ON | 2002/09/30 11:17 |
| S12 | 3   | ("4833019"   "5178925"   "5196265").PN.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | USPAT                                       | OR | ON | 2002/09/30 11:23 |
| S13 | 4   | "5419943".URPN.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | USPAT                                       | OR | ON | 2002/09/30 11:23 |
| S14 | 9   | "4895758".URPN.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | USPAT                                       | OR | ON | 2002/09/30 11:34 |
| S15 | 16  | "428"/\$.ccls. and ("recording medium" same "thickness" and "soft layer")                                                                                                                                                                                                                                                                                                                                                                                                                                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2005/06/13 08:30 |
| S16 | 2   | 360/131.ccls. and ("recording medium" same "thickness" and "soft layer")                                                                                                                                                                                                                                                                                                                                                                                                                                        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2005/06/13 08:31 |
| S17 | 11  | "5041922".URPN.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | USPAT                                       | OR | ON | 2002/09/30 12:02 |
| S18 | 35  | ("recording medium" same "thickness" and "soft layer")                                                                                                                                                                                                                                                                                                                                                                                                                                                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2006/03/05 13:47 |
| S19 | 17  | ("recording medium" and "thickness" same "soft layer")                                                                                                                                                                                                                                                                                                                                                                                                                                                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2003/07/27 16:01 |
| S20 | 357 | ("thickness" same "soft magnetic layer")                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2003/07/27 16:32 |
| S21 | 41  | ("3977985"   "4091158"   "4101311"   "4259392"   "4364988"   "4409281"   "4500599"   "4511617"   "4550062"   "4603091"   "4618536"   "4619868"   "4621018"   "4624894"   "4636433"   "4636448"   "4659633"   "4746542"   "4844946"   "4863793"   "4874633"   "4982302"   "5035948"   "5043210"   "5089317"   "5188907"   "5258223"   "5268206"   "5324571"   "5370932"   "5445104"   "5489466"   "5496607"   "5496622"   "5518804"   "5527603"   "5637390"   "5645917"   "5670245"   "5705268"   "5712028").PN. | USPAT                                       | OR | ON | 2002/09/30 13:12 |
| S22 | 15  | ((("thickness" same "soft magnetic layer") ) and "saturation flux"                                                                                                                                                                                                                                                                                                                                                                                                                                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2002/09/30 13:17 |

## EAST Search History

|     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                          |    |    |                  |
|-----|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----|----|------------------|
| S23 | 41  | ("3977985"   "4091158"   "4101311"  <br>"4259392"   "4364988"   "4409281"  <br>"4500599"   "4511617"   "4550062"  <br>"4603091"   "4618536"   "4619868"  <br>"4621018"   "4624894"   "4636433"  <br>"4636448"   "4659633"   "4746542"  <br>"4844946"   "4863793"   "4874633"  <br>"4982302"   "5035948"   "5043210"  <br>"5089317"   "5188907"   "5258223"  <br>"5268206"   "5324571"   "5370932"  <br>"5445104"   "5489466"   "5496607"  <br>"5496622"   "5518804"   "5527603"  <br>"5637390"   "5645917"   "5670245"  <br>"5705268"   "5712028").PN. | USPAT                                                    | OR | ON | 2002/09/30 13:16 |
| S24 | 79  | ((("thickness" same "soft magnetic layer") ) and<br>"flux density"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB              | OR | ON | 2002/09/30 13:17 |
| S25 | 2   | ("4210946"   "4711810").PN.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | USPAT                                                    | OR | ON | 2002/09/30 13:24 |
| S26 | 4   | "6194058".pn. or "5995341".pn. or<br>"5543221".pn. or "485758".pn.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB              | OR | ON | 2002/10/01 10:59 |
| S27 | 4   | "6194058".pn. or "5995341".pn. or<br>"5543221".pn. or "495758".pn.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB              | OR | ON | 2002/10/01 11:00 |
| S28 | 4   | "6194058".pn. or "5995341".pn. or<br>"5543221".pn. or "495758".pn.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB              | OR | ON | 2002/10/01 11:00 |
| S29 | 1   | "61026927".pn.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB              | OR | ON | 2002/10/01 11:00 |
| S30 | 1   | "6332424".pn.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB              | OR | ON | 2002/10/17 14:39 |
| S31 | 22  | ("recording medium" and "thickness" same<br>"soft layer")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB              | OR | ON | 2006/03/05 13:47 |
| S32 | 466 | ("thickness" same "soft magnetic layer")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB              | OR | ON | 2003/07/27 16:33 |
| S33 | 0   | ((("thickness" same "soft magnetic layer") )<br>and "recording medium") and ("5 microns or<br>less")                                                                                                                                                                                                                                                                                                                                                                                                                                                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT<br>; IBM_TDB | OR | ON | 2003/07/27 16:35 |

## EAST Search History

|      |      |                                                                           |                                             |    |    |                  |
|------|------|---------------------------------------------------------------------------|---------------------------------------------|----|----|------------------|
| S34  | 315  | ((("thickness" same "soft magnetic layer")) and "recording medium")       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2003/07/27 16:36 |
| S35  | 22   | ("recording medium" and "thickness" same "soft layer")                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2003/07/28 09:16 |
| S36  | 1936 | ("recording medium" same "soft layer")                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2003/07/28 09:16 |
| S37  | 1453 | ("recording medium" same "soft magnetic layer")                           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2005/06/13 08:32 |
| S38  | 919  | ((("recording medium" same "soft magnetic layer")) and "thickness")       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2005/06/13 08:32 |
| S39  | 1    | "5486967".pn.                                                             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2003/07/28 09:27 |
| S40  | 2    | "5584727".pn. or "10003643".pn.                                           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2004/08/21 17:55 |
| S41  | 2    | "5854727".pn. or "10003643".pn.                                           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2004/08/21 17:55 |
| S184 | 41   | "428"/\$.ccls. and ("recording medium" same "thickness" and "soft layer") | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2005/06/13 08:30 |
| S185 | 2    | 360/131.ccls. and ("recording medium" same "thickness" and "soft layer")  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2005/06/13 08:31 |
| S186 | 2073 | 360/125.ccls.                                                             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2005/06/13 08:31 |
| S187 | 2084 | 360/131.ccls.                                                             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2005/06/13 08:31 |
| S188 | 2275 | ("recording medium" same "soft magnetic layer")                           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2005/06/13 08:31 |

## EAST Search History

|      |      |                                                                    |                                                          |    |     |                  |
|------|------|--------------------------------------------------------------------|----------------------------------------------------------|----|-----|------------------|
| S189 | 2275 | ("recording medium"same "soft magnetic layer")                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB              | OR | ON  | 2005/06/13 08:32 |
| S190 | 1603 | ((("recording medium"same "soft magnetic layer") ) and "thickness" | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB              | OR | ON  | 2005/06/13 08:32 |
| S191 | 2    | ("6657813").PN.                                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT<br>; IBM_TDB | OR | OFF | 2006/03/01 14:20 |